

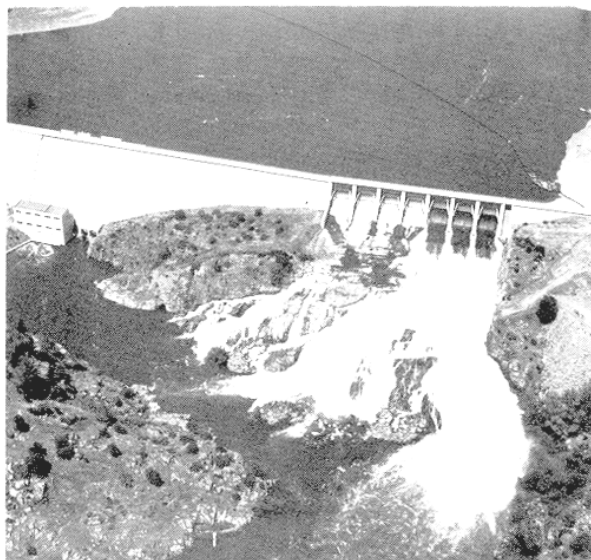
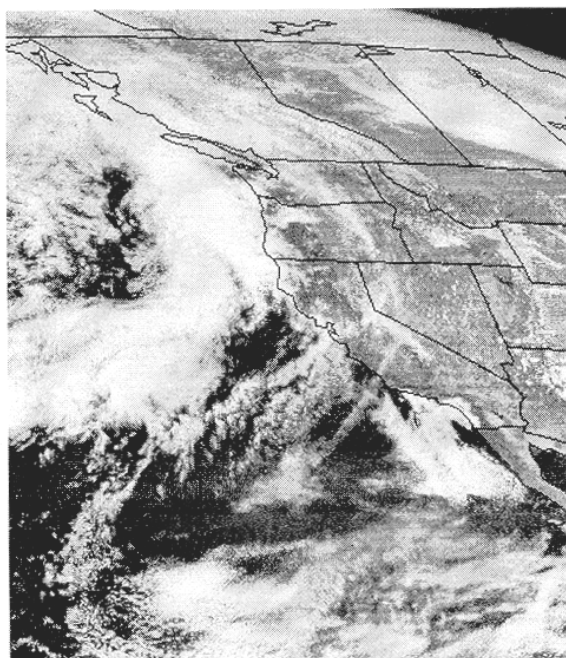


California Water Supply Outlook

May 2003

Compiled by the
Division of Flood Management,
Flood Operations and Hydrology Branches

Climate and Weather . . . Snowpack . . . Streamflow . . . Reservoir Storage



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The data in this publication are preliminary and may be subject to revision.

Water Supply Outlook used to be published on a semimonthly basis by the Hydrology and Flood Operation Office of the Division of Flood Management, and provided a statewide summary of current hydrologic conditions.

Due to the increasing cost of publishing and mailing, as well as a desire by the public for more timely and additional information, Water Supply Outlook will now only be available through the Internet. This product contains a series of links to html, text, and pdf format reports, which will allow more frequent updates of data and information. This is a "work-in-progress" and will be improved as funds and time allow.

For more details, contact:

Water Supply Outlook
Division of Flood Management
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Also of interest, the California Cooperative Snow Surveys, a unit of the Division of Flood Management, publishes Bulletin 120, ***Water Conditions in California:***

<http://cdec.water.ca.gov/snow/>

This bulletin is published monthly by the Department of Water Resources from February 1 to May 1, with a final Fall Report at the end of the water year. Bulletin 120 provides forecasts of unimpaired runoff for California rivers, along with precipitation, snowpack, and reservoir storage data. To receive Bulletin 120, contact the Department of Water Resources Mailing List Coordinator:

Department of Water Resources
The Resources Agency
State of California
P.O. Box 942836
Sacramento, CA 94236-0001

916-653-0995

California Water Conditions Synopsis for April 2003

A series of storms during April erased the deficit from the dry winter, and the snowpack reached its highest level this year in early May. The accumulated snow water content is peaking over a month later than average, in contrast to early peaks in many recent years. Snowmelt runoff has been delayed, but the late melt will keep runoff in mountain rivers near or above average through June. Water supplies are much improved in all regions of the state.

Precipitation during April was 230 percent of average statewide, far above average in all regions of the state except the Colorado Desert. Precipitation during the month in the northern Sierra was 270 percent of average, the third wettest April in 80 years of record, exceeded only in 1948 and 1963. The cumulative statewide precipitation since October is 110 percent of average compared to 80 percent one year ago.

Snowpack water content increased 15 percent overall during April to reach 80 percent of the historical April 1 average. Much below average temperatures combined with the wet weather to cause the third largest April increase in statewide snowpack in the last 50 years. The largest snow accumulations are in the North Coast & Lahontan regions and at high elevations. Last year the snowpack peaked at 95 percent of average on April 1 and melted very quickly.

Runoff during April was 115 percent of average statewide, and 170 percent of average in the North Coast region. Monitor stages were reached at several spots in northern California, and water flowed over the weirs into the Sacramento River bypass system at the end of the month. In contrast, southern Sierra runoff was only half of average due to a delay in the onset of snowmelt. Cumulative statewide runoff for the water year is 100 percent of average, compared to 80 percent at this time last year. There is a pronounced gradient from above average in the northwest to below average in the remainder of California.

Forecasts of April through July runoff have been increased about 30 percent due to the unusually wet April weather. The statewide forecasts total about 100 percent of average assuming normal weather for the remainder of the season. The spring runoff forecasts are highest in the far northern basins. Water year forecasts have also been raised about 15 percent to 95 percent of average. As of May 1, the forecasted Sacramento River Index (SRI) was 99 percent of average, the Sacramento Valley Index (40-30-30 SVI) year type was 'above normal', and the San Joaquin Valley Index (60-20-20 SJI) year type was 'below normal'.

Reservoir storage increased at greater than an average pace during April. Overall storage was nearly 105 percent of average on May 1, 4 percent more than last year. Most northern reservoirs are fairly full or at flood control limits.

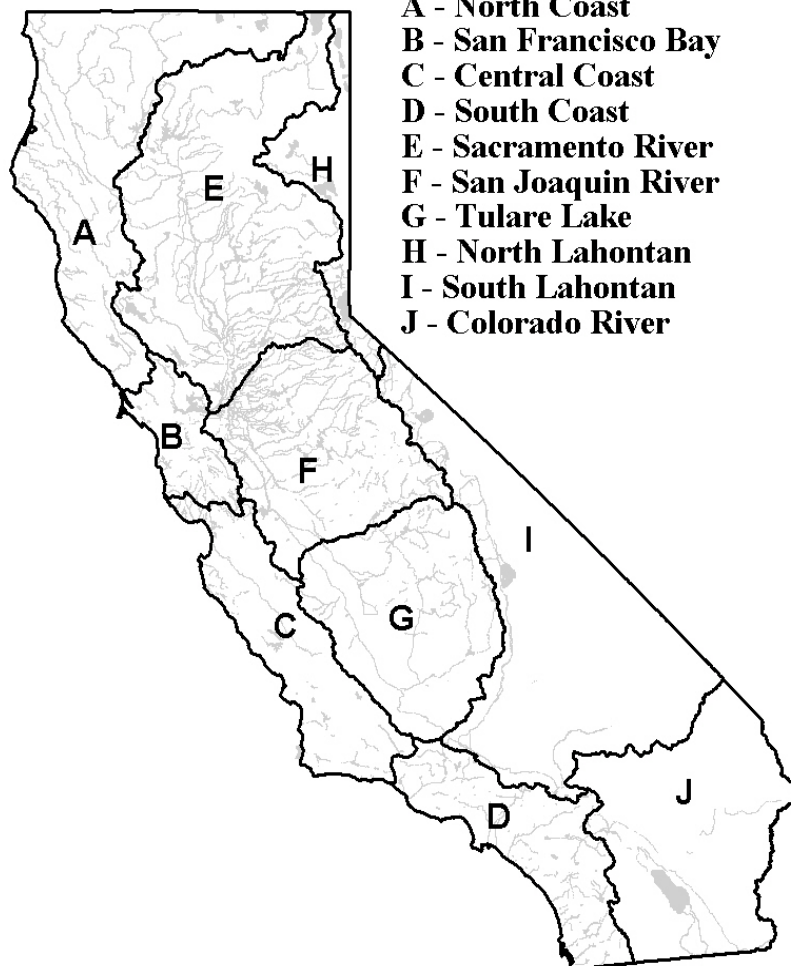
Summary of Water Conditions in California*

May 1, 2003

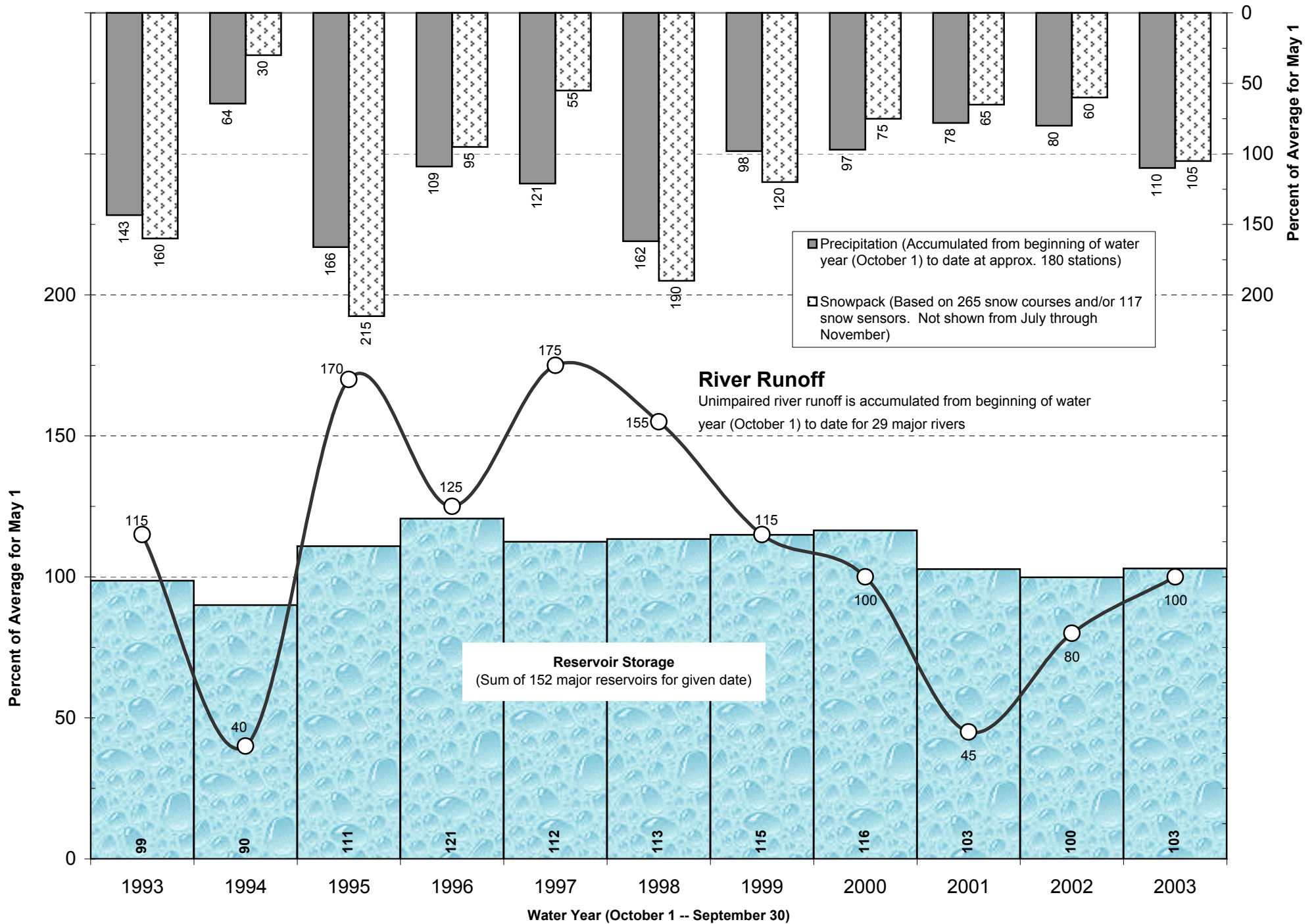
(percent of average)

Hydrologic Region	Precip Oct 1- date	Snow Water Content	Reservoir Storage Apr 30	Oct 1- date	Runoff Apr thru Jul Forecast	Water Year Forecast
North Coast	125	175	110	120	120	120
San Francisco Bay	120	---	95	105	---	---
Central Coast	95	---	95	80	---	---
South Coast	105	---	85	45	---	---
Sacramento River	110	115	110	95	110	100
San Joaquin River	95	100	100	65	90	80
Tulare Lake	100	70	95	80	75	75
North Lahontan	100	90	50	75	85	80
South Lahontan	130	70	100	65	80	75
Colorado River	75	---	---	---	---	---
Statewide	110	105	105	100	100	100
Last Year, Statewide:						
May 1, 2002	80	60	100	80	75	75

*From Bulletin 120-4-03, Water Conditions in California.

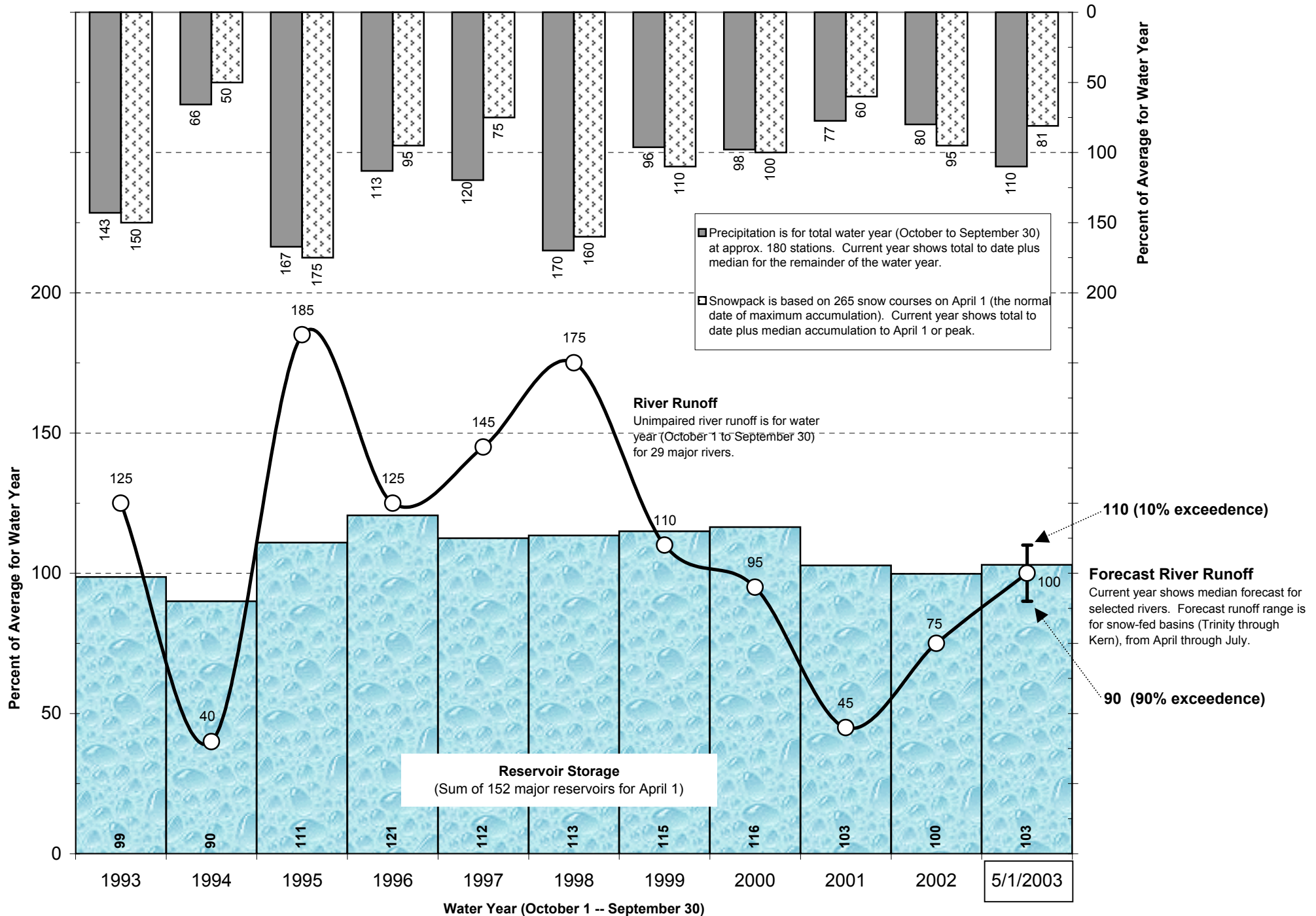


California Statewide Hydrologic Conditions as of May 1



California Statewide Water Year Hydrologic Totals

Current water year shows conditions as of May 1 with median future precipitation, snowpack, and runoff

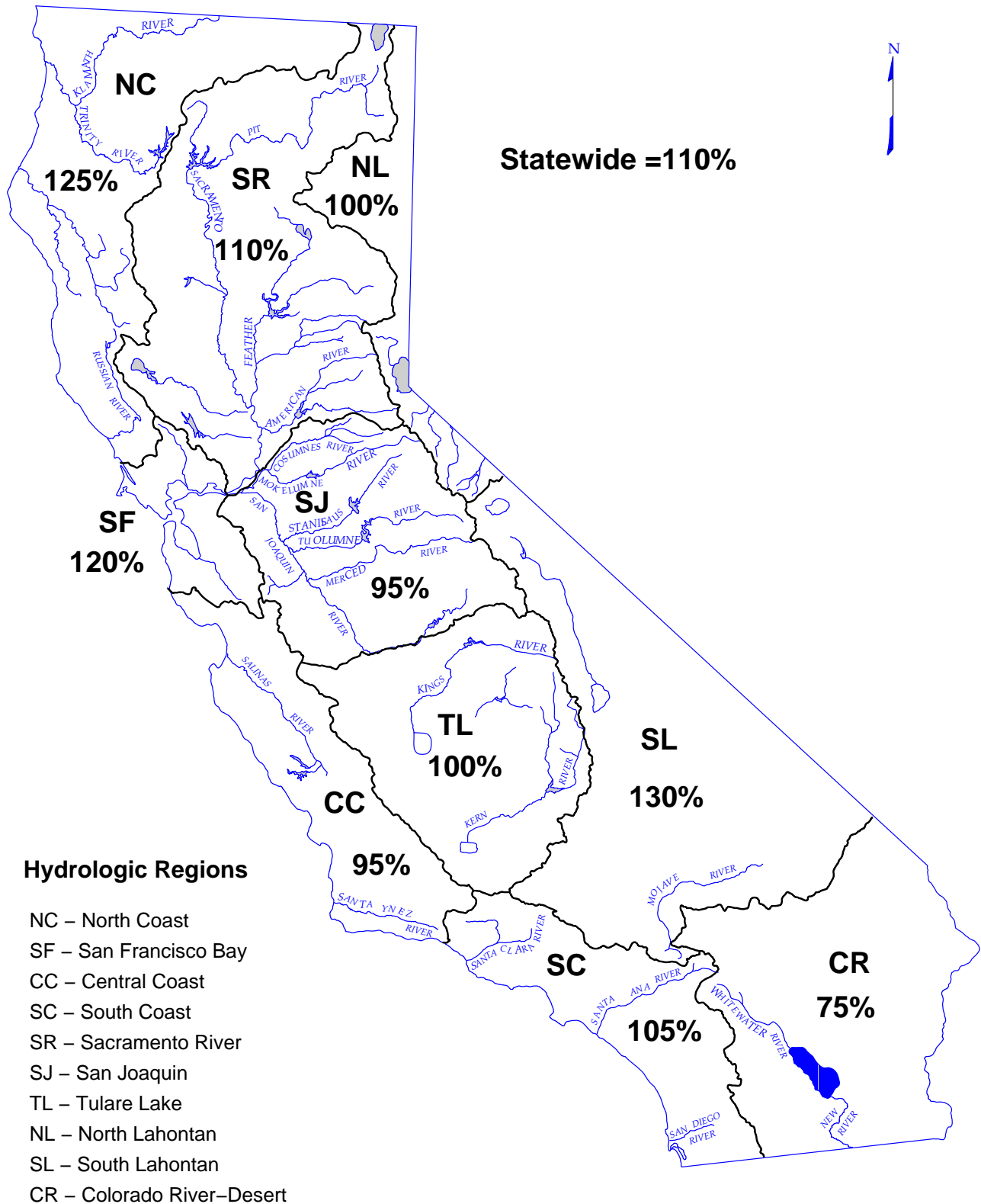


DEPARTMENT OF WATER RESOURCES

CALIFORNIA COOPERATIVE SNOW SURVEYS

SEASONAL PRECIPITATION

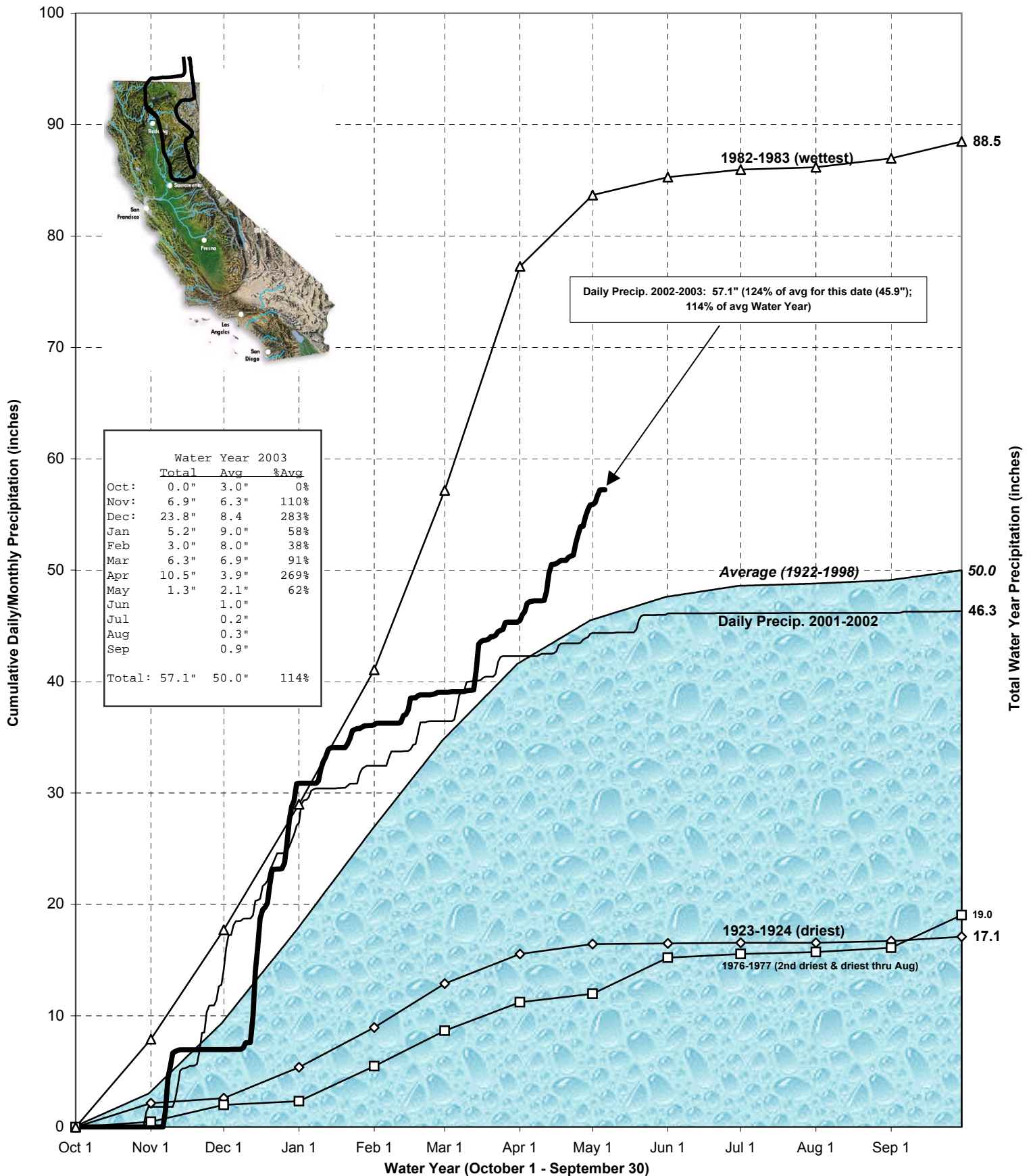
IN PERCENT OF AVERAGE TO DATE
October 1, 2002 through April 30, 2003



WATER YEAR IS OCTOBER 1 THROUGH SEPTEMBER 30

Northern Sierra Precipitation: 8-Station Index*

May 6, 2003

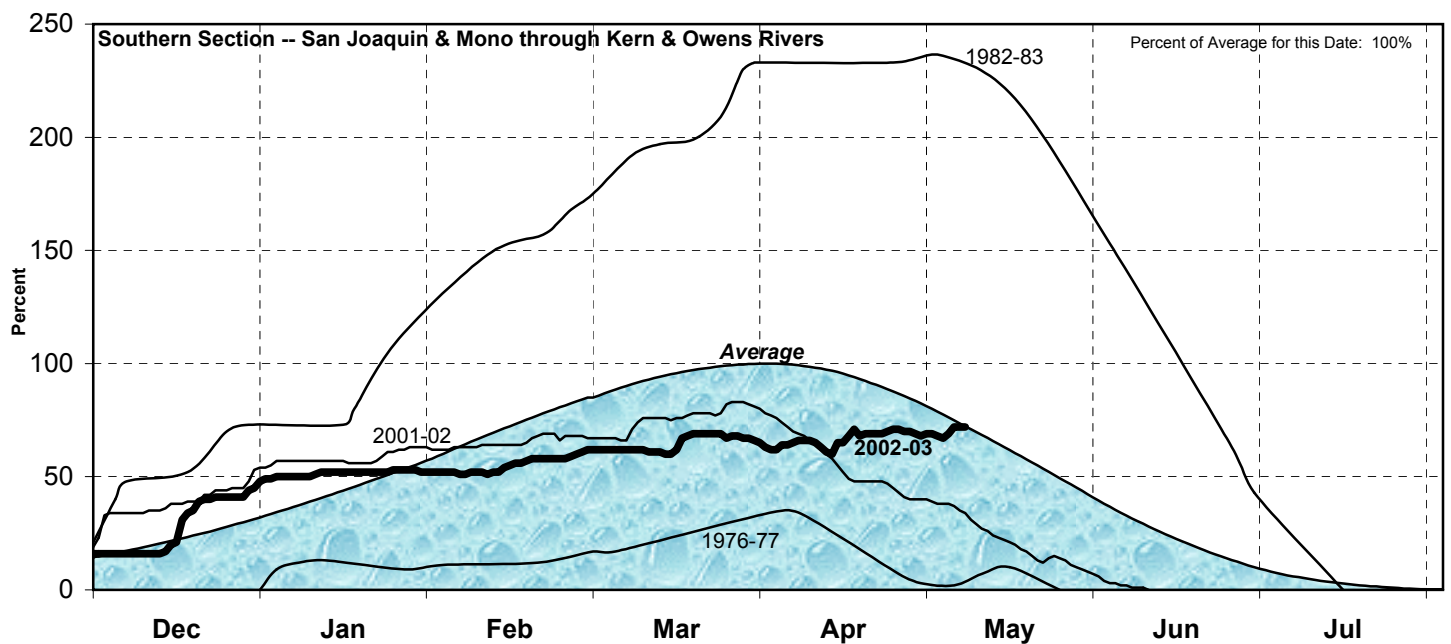
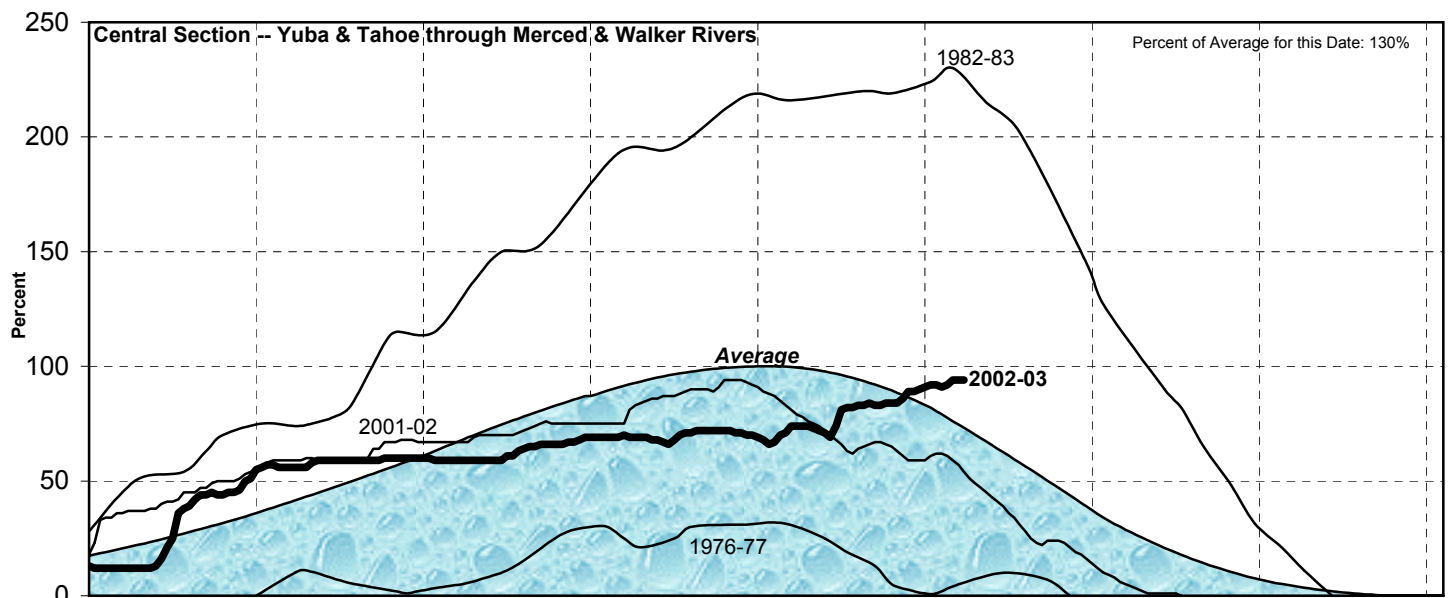
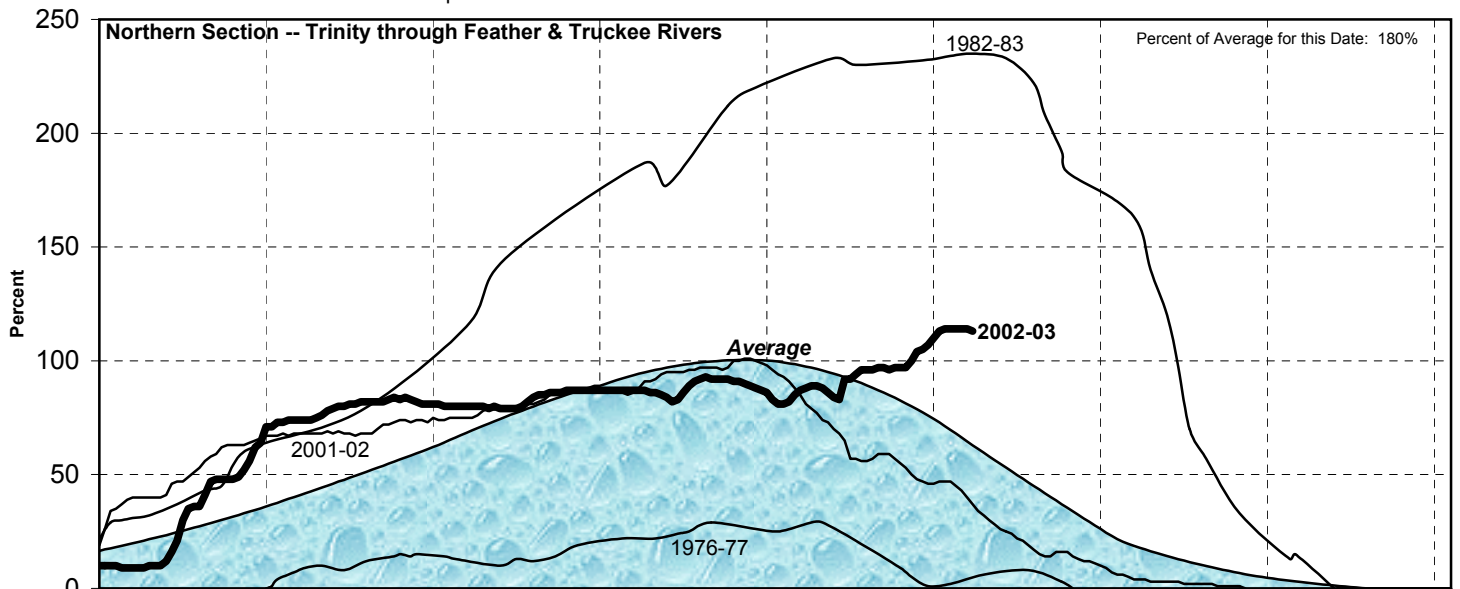


*The average of eight precipitation stations serves as a generalized wetness index for the Sacramento River hydrologic region. It provides a representative sample of the region's major watersheds: the upper Sacramento, Feather, Yuba, and American rivers, which produce inflow to some of California's largest reservoirs--the source of much of our water supply. The eight stations are: Blue Canyon, Brush Creek RS, Mineral, Mount Shasta City, Pacific House, Quincy RS, Shasta Dam, Sierraville RS. Official seasonal runoff forecasts are based on many more measurements than this index, including snowpack and prior streamflow. These seasonal forecasts are a much more accurate measure of water supply.

California Snow Water Content, May 6, 2003

Percent of April 1 Average*

*April 1 is the normal date of maximum accumulation for the season.

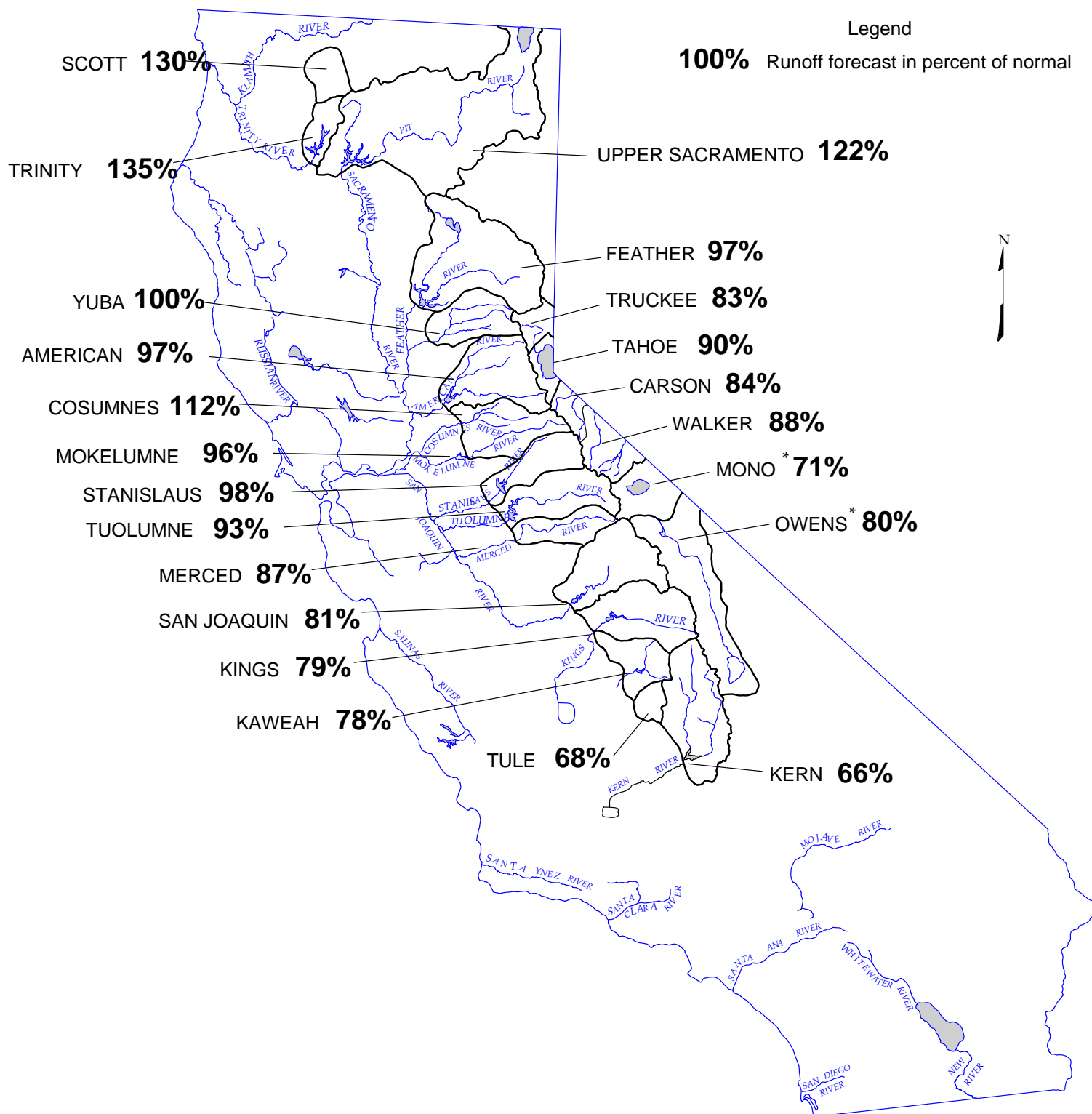


Note: Water Year 1976-77 was the record minimum and Water Year 1982-83 was the record maximum.

DEPARTMENT OF WATER RESOURCES CALIFORNIA COOPERATIVE SNOW SURVEYS

FORECAST OF APRIL – JULY UNIMPAIRED SNOWMELT RUNOFF

May 1, 2003



Regional Reservoir Water Storage Summary

Sum of storage at major California reservoirs in (1,000 Acre-Feet)
As of April 30, 2003

Region	Number of Res.	Total Capacity	Historic Average	End-of-month April storage in calendar year:							
				1977	1983	1998	1999	2000	2001	2002	2003
North Coast	7	3,148	2,529	1,160	2,416	2,636	2,733	2,840	2,458	2,523	2,746
SF Bay	14	546	401	200	506	498	482	465	406	356	382
Central Coast	6	970	705	406	992	922	890	905	899	712	675
South Coast	29	1,989	1,550	908	1,686	1,807	1,611	1,518	1,427	1,268	1,340
Sacramento R	43	16,001	13,129	5,904	13,887	13,835	14,202	14,225	12,104	13,294	14,563
San Joaquin R	34	11,439	7,645	2,864	8,301	8,615	8,848	9,242	8,645	8,050	7,728
Tulare Lake	6	2,044	1,038	544	1,065	1,372	1,311	1,253	1,067	955	974
North Lahontan	5	1,072	634	206	765	909	898	962	640	414	322
South Lahontan	8	402	259	172	243	260	279	279	296	287	255
State Total	152	37,614	27,894	12,367	29,864	30,858	31,257	31,694	27,947	27,863	28,988
Percent of Average				44%	107%	110%	112%	113%	100%	99%	103%

Comments:

The 1983 through 2001 storage amounts include New Melones and Warm Springs Reservoirs which began operation after 1977, the new Spicer Meadows Reservoir on the Stanislaus River which began operation in 1989, and Los Vaqueros Reservoir which began operation in 1998.

The 1983 column shows storage in the wettest runoff year this century (1977 was the driest)

Water Storage in Selected California Reservoirs

(1,000 Acre-Feet)

Reservoir	Cap	Hist Avg	End-of-month April storage in calendar year:							
			1977	1983	1998	1999	2000	2001	2002	2003
NORTH COAST:			NC							
<u>Klamath River (Interstate)</u>										
Upper Klamath Lake	873.3	469.4	454.3	483.8	495.8	409.4	476.0	470.5	465.1	480.6
<u>Shasta River</u>										
L. Shastina (Dwinnell)	50.0	36.4	10.8	50.0	50.2	46.1	44.8	22.5	19.4	45.3
<u>Humboldt MWD</u>										
Ruth Lake	51.8	49.0	26.3	50.8	48.1	48.4	46.9	48.2	48.4	51.4
<u>Russian River</u>										
Lake Sonoma	381.0	223.8	0.0	0.0	244.5	244.8	245.8	242.0	242.4	249.1
SAN FRANCISCO BAY:			SFB							
<u>Marin MWD</u>										
Soulajule Reservoir	10.6	9.7	0.0	10.6	10.6	10.5	10.1	9.4	10.3	10.6
Nicasio Reservoir	22.4	20.1	0.3	22.4	22.4	22.4	22.4	22.0	22.0	22.4
Kent Lake	32.9	26.9	0.8	32.9	32.9	32.6	32.5	24.1	32.1	32.9
Alpine Lake	8.9	8.5	6.5	8.9	8.9	8.9	8.9	8.7	8.9	8.9
SUM	74.8	65.2	7.6	74.8	74.8	74.5	73.9	64.2	73.2	74.8
<u>East Bay MUD</u>										
Pardee Reservoir (1)	198.0	181.5	53.0	164.6	199.5	167.2	189.7	193.7	174.2	189.2
Camanche Res. (1)	417.1	258.5	131.4	258.2	255.6	283.8	291.6	270.3	295.9	312.1
SUM	615.1	440.0	184.4	422.8	455.2	451.0	481.2	464.0	470.1	501.3
<u>San Francisco Cy & Co</u>										
San Andreas Lake	19.0	16.2	17.5	16.1	14.6	18.8	17.4	19.9	17.9	16.4
Crystal Springs Res.	58.4	51.3	44.7	58.6	54.3	53.2	49.8	49.3	50.0	58.2
San Antonio Reservoir	50.5	38.5	20.0	47.8	50.8	50.7	45.9	43.5	49.1	49.3
Calaveras Reservoir	96.9	75.8	29.9	96.9	97.6	97.2	91.7	81.2	32.2	38.2
Hetch Hetchy Res. (1)	360.4	157.2	54.9	150.7	138.0	190.2	201.7	215.3	179.7	238.1
Lake Eleanor (1)	26.1	14.7	1.8	15.5	26.2	21.5	25.5	16.7	22.0	9.7
Cherry Lake (1)	268.0	144.8	93.2	162.7	129.1	198.9	225.1	182.1	223.9	204.0
SUM	879.3	498.6	261.8	548.3	510.6	630.5	657.2	607.9	574.8	613.8
CENTRAL COAST:			CC							
<u>Salinas River</u>										
Santa Margarita Lake	23.0	20.9	11.0	23.3	24.0	21.8	23.8	23.9	16.5	14.8
Lake Nacimiento	377.9	227.4	44.0	357.8	354.2	328.1	322.8	314.9	209.1	239.9
Lake San Antonio	330.0	240.5	184.1	355.8	303.5	306.3	318.6	318.6	286.4	253.4
SUM	730.9	488.8	239.1	736.9	681.7	656.2	665.2	657.4	511.9	508.1
<u>Santa Ynez River</u>										
Gibraltar Reservoir	8.2	7.8	5.0	8.6	7.5	7.2	7.1	7.2	2.8	7.0
Lake Cachuma	190.5	174.0	131.3	205.6	192.6	186.7	192.9	194.4	161.0	126.8
SUM	198.7	181.9	136.3	214.2	200.1	193.9	200.0	201.5	163.7	133.8

Water Storage in Selected California Reservoirs

(1,000 Acre-Feet)

Reservoir	Cap	Hist Avg	End-of-month April storage in calendar year:							
			1977	1983	1998	1999	2000	2001	2002	2003
SOUTH COAST:			SC							
<u>Ventura River</u>										
Lake Casitas	254.0	227.0	195.2	--	255.0	237.5	226.9	242.2	216.1	195.8
<u>Santa Ana River</u>										
Big Bear Lake	73.0	61.8	36.8	72.5	72.4	67.5	62.5	56.1	45.1	40.7
<u>SWP, South</u>										
Pyramid Lake	171.2	163.1	166.1	158.3	156.2	161.2	162.5	164.2	162.9	161.7
Castaic Lake	323.7	286.3	93.7	322.1	319.4	297.6	313.4	257.6	263.4	298.4
Silverwood Lake (2)	73.0	68.0	53.9	70.8	67.8	72.1	70.9	69.6	73.0	71.7
Lake Perris	131.5	117.1	82.2	125.8	122.4	124.9	112.7	112.4	116.9	125.9
SUM	699.4	634.5	395.9	677.0	665.7	655.7	659.4	603.8	616.2	657.7
SACRAMENTO RIVER:			SB							
<u>CVP, North</u>										
Trinity Lake (3)	2447.7	2044.8	1034.8	2143.5	2113.0	2208.3	2318.7	1963.2	2049.4	2215.9
Lake Shasta	4552.0	3950.4	1214.1	4286.1	4061.2	4256.2	4153.3	4020.1	4296.7	4536.6
Whiskeytown Lake	241.1	231.5	235.9	239.9	233.8	235.0	237.3	235.9	239.8	247.8
Folsom Lake	977.0	728.2	297.9	765.7	760.1	755.6	697.3	667.5	759.1	830.6
SUM	8217.8	6954.8	2782.7	7435.2	7168.1	7455.2	7406.6	6886.7	7345.1	7830.9
<u>Orland Project</u>										
East Park Reservoir	50.9	47.5	0.3	49.3	48.5	48.5	48.4	48.4	45.8	48.9
Stony Gorge Reservoir	50.0	47.1	5.2	51.1	50.3	49.7	49.0	50.2	40.2	48.9
SUM	100.9	94.6	5.5	100.4	98.8	98.2	97.4	98.6	86.0	97.8
<u>Cache Creek</u>										
Indian Valley Res.	301.0	203.4	0.4	288.3	270.5	276.7	252.8	233.0	148.8	196.8
Clear Lake	313.0	268.5	0.0	329.2	318.7	314.7	312.9	209.1	279.9	327.0
SUM	614.0	471.9	0.4	617.5	589.2	591.4	565.7	442.1	428.7	523.8
<u>Solano Project</u>										
Lake Berryessa	1600.0	1391.5	943.7	1631.7	1605.2	1600.7	1589.6	1472.4	1489.4	1617.8
<u>Feather River</u>										
Lake Almanor	1143.0	872.3	643.1	900.0	916.4	1014.4	1039.9	768.5	839.1	918.4
Lake Oroville	3537.6	2966.8	1406.8	2935.3	3025.7	3246.6	3107.6	2188.4	2659.1	3073.3
SUM	4680.6	3839.2	2049.9	3835.3	3942.1	4261.0	4147.5	2956.8	3498.2	3991.7
<u>Yuba County WA</u>										
Bullards Bar Reservoir	966.1	751.0	289.2	848.7	839.2	781.7	843.8	762.3	812.8	892.8
<u>PG and E</u>										
Lake Spaulding Systerr	144.6	87.6	45.1	29.3	78.1	39.0	104.2	80.7	79.2	73.0
<u>Nevada ID</u>										
Jackson Meadows Res	69.2	43.8	7.1	23.0	37.4	41.8	50.5	34.8	46.1	58.6
French Lake	13.8	10.5	1.3	13.8	10.6	10.3	13.5	10.3	11.3	13.0
Bowman Lake	68.5	43.4	25.7	35.2	38.9	35.2	56.3	42.9	44.0	49.5
Scotts Flat Reservoir	48.5	46.3	18.1	48.8	48.5	48.1	48.2	46.3	48.2	48.4
Rollins Reservoir	66.0	62.4	12.5	67.3	66.0	66.6	66.6	65.4	66.0	66.0
SUM	266.0	206.3	64.7	188.2	201.4	202.0	235.1	199.7	215.6	235.5

Water Storage in Selected California Reservoirs (1,000 Acre-Feet)

Reservoir	Cap	Hist Avg	End-of-month April storage in calendar year:							
			1977	1983	1998	1999	2000	2001	2002	2003
SACRAMENTO RIVER, continued:										
<u>South Sutter WD</u>										
Camp Far West Res.	104.0	99.4	11.2	110.5	105.7	104.6	104.5	88.0	104.4	106.6
<u>Placer CO WA</u>										
French Meadows Res	136.4	89.1	46.3	51.3	77.9	93.5	110.0	78.3	87.4	91.3
Hell Hole Reservoir	207.6	138.3	87.2	108.0	124.4	115.7	161.4	90.7	118.5	172.5
SUM	344.0	227.4	133.5	159.2	202.3	209.2	271.4	169.0	205.9	263.9
<u>Sacramento MUD</u>										
Loon Lake	76.5	35.9	18.0	6.4	28.7	20.1	42.9	38.8	41.6	36.2
Union Valley Reservoir	277.3	188.4	39.8	194.2	205.6	184.8	228.6	97.0	235.7	219.7
Ice House Reservoir	46.0	27.6	9.3	9.0	16.3	16.1	34.5	25.0	32.4	29.5
Slab Creek Reservoir	16.6	14.6	15.6	14.0	13.6	10.8	13.6	15.1	13.8	12.8
SUM	416.4	266.5	82.6	223.6	264.1	231.7	319.5	175.9	323.5	298.1
SAN JOAQUIN RIVER:										
<u>Contra Costa WD</u>										
Los Vaqueros Res.	104.8	77.8	--	--	20.4	100.8	98.0	88.3	83.7	95.0
<u>Sly Park</u>										
Jenkinson Lake	41.0	38.1	8.7	41.7	41.1	41.1	41.2	39.3	41.2	41.3
<u>Calaveras River</u>										
New Hogan Reservoir	317.1	178.2	47.8	236.8	241.2	211.4	201.7	183.9	180.2	158.3
<u>Tri-Dam</u>										
Donnell Reservoir	64.3	30.1	8.8	2.8	19.4	14.2	33.7	19.4	21.1	7.0
Beardsley Lake	97.8	66.0	6.5	78.4	78.9	78.0	66.6	43.2	55.1	52.7
Tulloch Reservoir	67.0	61.6	17.7	64.1	60.7	60.3	61.3	61.4	62.0	60.8
SUM	229.1	157.7	33.0	145.4	159.0	152.5	161.6	124.0	138.3	120.5
<u>CVP, Stanislaus R</u>										
New Melones Res. (4)	2420.0	1446.4	4.6	1931.3	2052.3	1991.6	1996.0	1876.0	1588.9	1427.2
<u>Tuolumne River</u>										
New Don Pedro Res.	2030.0	1444.0	524.4	1672.4	1625.9	1656.7	1774.0	1673.0	1538.2	1509.1
<u>Merced River</u>										
Lake McClure	1024.6	617.9	206.9	670.3	700.1	706.6	766.2	687.4	526.7	435.0
<u>Up. San Joaquin R</u>										
Florence Lake	64.6	3.0	0.7	2.1	1.4	1.3	3.0	3.0	11.1	1.3
Lake Thomas A. Edisor	125.0	33.9	8.1	48.3	9.7	54.2	48.0	48.0	51.7	53.3
Mammoth Pool Res.	122.7	51.6	57.1	72.1	46.3	23.5	51.7	34.6	40.0	30.4
Huntington Lake	89.8	42.9	62.1	25.0	32.5	37.8	57.8	68.4	79.0	57.1
Shaver Lake	135.4	49.3	30.4	66.3	43.8	89.8	83.0	106.9	97.0	84.5
Bass Lake	45.4	36.3	21.5	36.2	34.9	37.8	37.6	39.8	40.8	41.0
Redinger Lake	35.0	24.2	19.7	25.4	17.4	25.3	23.4	24.4	24.5	23.7
SUM	617.9	241.1	199.5	275.3	186.0	269.6	304.5	325.1	344.1	291.2
<u>Friant</u>										
Millerton Lake	520.0	351.7	217.5	159.5	368.3	513.3	516.3	450.5	469.6	501.6
<u>DWR & USBR</u>										
San Luis Res. (CVP)	971.0	880.0	509.0	937.4	937.6	902.2	906.8	926.4	870.7	898.4
San Luis Res. (SWP)	1062.0	983.4	624.0	1060.4	1062.2	1011.7	969.3	984.6	973.5	920.2
SUM	2033.0	1863.4	1133.0	1997.8	1999.8	1913.9	1876.1	1911.0	1844.2	1818.7

Water Storage in Selected California Reservoirs (1,000 Acre-Feet)

Reservoir	Cap	Hist Avg	End-of-month April storage in calendar year:							
			1977	1983	1998	1999	2000	2001	2002	2003
TULARE LAKE:									TLB	
<u>Kings River</u>										
Courtright Reservoir	123.2	48.4	7.1	41.7	15.0	84.3	75.1	83.8	81.2	49.6
Wishon Reservoir	128.3	48.7	87.5	23.4	39.5	61.5	55.6	39.6	42.8	44.7
Pine Flat Reservoir	1000.0	613.7	338.6	554.7	766.8	782.8	759.5	637.2	549.9	523.6
SUM	1251.5	710.8	433.1	619.8	821.3	928.6	890.1	760.7	673.8	618.0
<u>Kaweah River</u>										
Lake Kaweah	143.0	68.9	33.3	--	95.7	66.8	89.9	98.7	100.0	100.6
<u>Tule River</u>										
Lake Success	82.3	45.7	12.2	61.7	65.3	40.3	63.0	42.5	42.1	52.9
<u>Kern River</u>										
Lake Isabella	568.0	213.1	65.9	384.0	390.2	275.6	210.8	166.1	139.3	202.7
NORTH LAHONTAN:									NLB	
<u>Truckee River</u>										
Lake Tahoe	732.0	417.3	121.2	507.6	615.4	605.6	664.6	406.3	208.9	137.2
Prosser Creek Res.	29.8	13.8	2.9	9.1	18.3	14.5	19.8	10.3	14.0	14.3
Stampede Reservoir	226.5	146.3	36.0	227.9	212.2	208.3	215.9	188.8	144.5	128.2
Boca Reservoir	41.1	28.8	33.6	10.9	35.1	34.4	33.6	12.2	31.3	23.7
SUM	1029.4	606.2	193.7	755.5	881.0	862.8	934.0	617.6	398.7	303.4
<u>East Walker River</u>										
Bridgeport Reservoir	42.6	28.2	12.3	10.4	28.9	35.5	28.8	23.2	16.0	18.7
SOUTH LAHONTAN:									SLB	
<u>Los Angeles DWP</u>										
Grant Lake	47.6	25.8	7.4	19.2	41.5	38.7	37.0	37.8	31.8	17.7
Lake Crowley	183.2	123.8	57.5	108.6	118.4	125.4	130.1	146.0	139.2	127.9
Tinemaha Reservoir	16.3	2.5	6.1	4.0	2.2	2.3	2.9	1.8	2.0	1.9
Haiwee Reservoir	41.2	32.3	36.8	38.9	27.0	33.8	31.6	29.2	32.0	29.3
SUM	288.3	184.4	107.8	170.8	189.1	200.3	201.6	214.8	205.0	176.8
COLORADO RIVER:									CDI	
<u>Colorado River</u>										
Lake Powell	25002.0	19267.0	18130.0	22782.0	20745.0	20893.0	20674.2	18820.8	16704.7	12243.4
Lake Mead	26159.0	20374.2	20620.0	24436.0	24813.0	24216.0	24213.0	21603.0	18539.0	16287.0
Lake Mohave	1810.0	1672.2	1755.0	1641.4	1727.6	1669.8	1697.2	1733.8	1682.3	1686.0
Lake Havasu	619.4	587.9	594.6	571.6	581.4	583.1	575.7	594.0	583.8	591.5
SUM	53590.4	41901.4	41099.6	49431.0	47867.0	47361.9	47160.1	42751.6	37509.8	30807.9

Footnotes:

- 1) Located in Sierra Nevada (San Joaquin Basin drainage)
- 2) Located in South Lahontan Basin drainage
- 3) Located in North Coast drainage
- 4) 1977 value is for old Melones Reservoir

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